

23 - Kevin

25 - Erik

28 - Laura

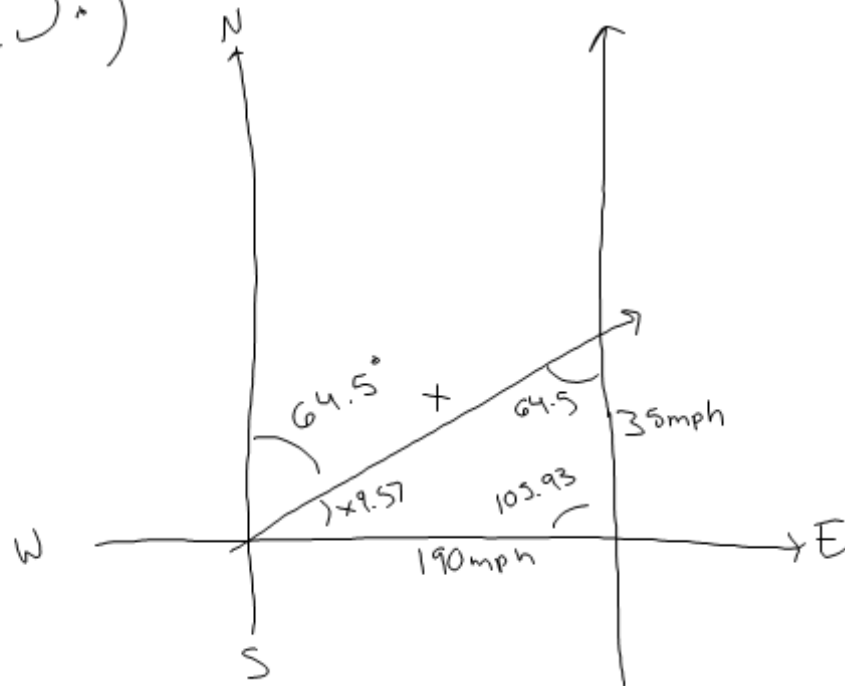
29 - Chance

15 - Colin or Kyle

~~10~~

21 - Shelby

25.)



$$\frac{\sin 64.5}{190} = \frac{\sin X}{35}$$

$$\frac{\sin X \cdot 190}{190} = \frac{31.59}{190}$$

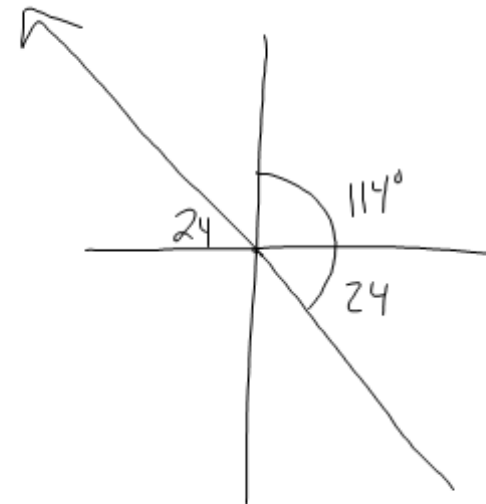
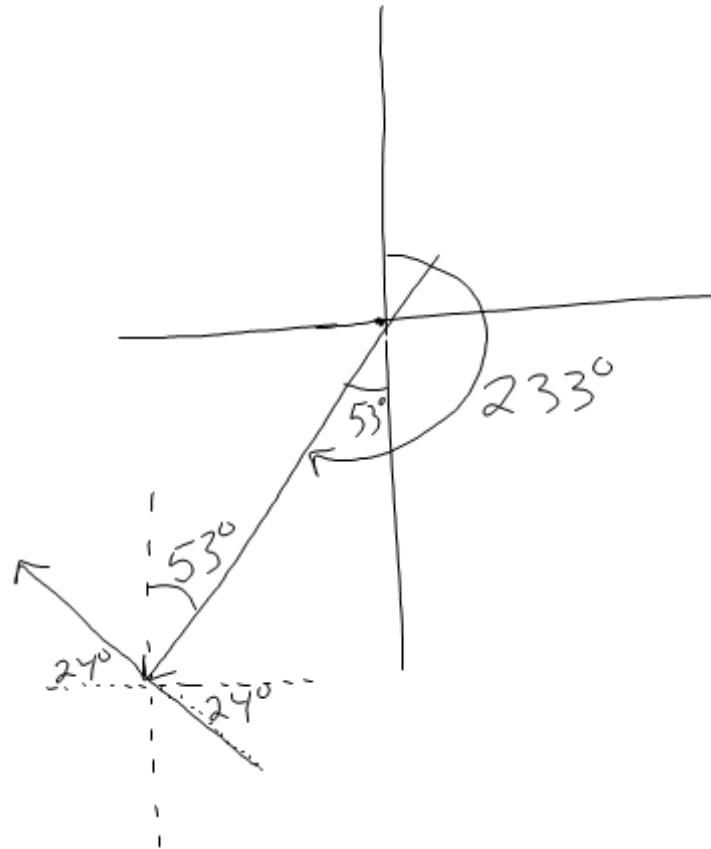
$$\cancel{35} X = 9.57$$

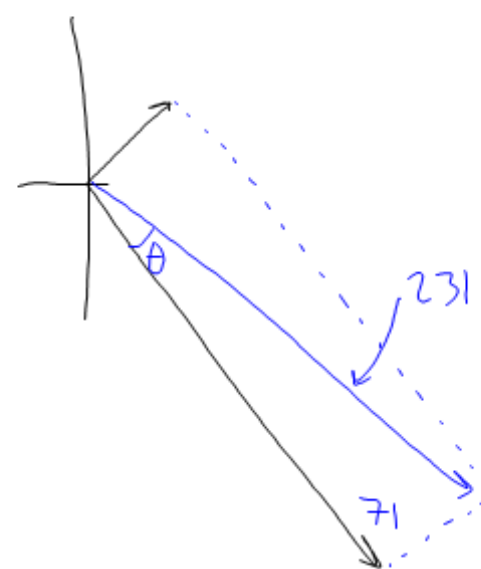
$$64.5 + 9.57 = \boxed{74.07^\circ}$$

Bearing

$$\frac{\sin 105.93}{X} = \frac{\sin 64.5}{190}$$

$$\boxed{X = 202.4 \text{ mph}}$$





$$\frac{\sin 71^\circ}{231} = \frac{\sin \theta}{30}$$

Test

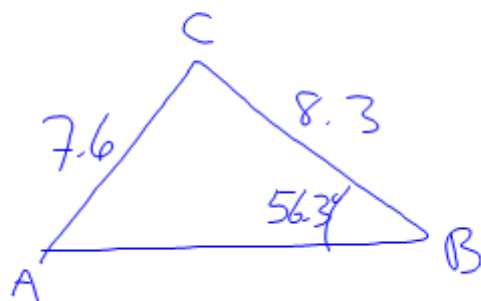
- Solving triangles (Law of sines and cosines, ASS case)
- Finding Area $A = \frac{1}{2}ab\sin C$
- horz. / vert. components
- Two forces (like Tug Boats)
 - how much force
 - what angle from given force
- Airplane + cross wind - ground speed, airspeed, bearings
- Wagon problem
- Finding magnitude + direction of vectors, $\langle \quad \rangle$, Find components
p. 307
ex. 2-3

p. 325

#5, 11, 15, 17-19, 21, 42, 43, 48, 49, 51, 52

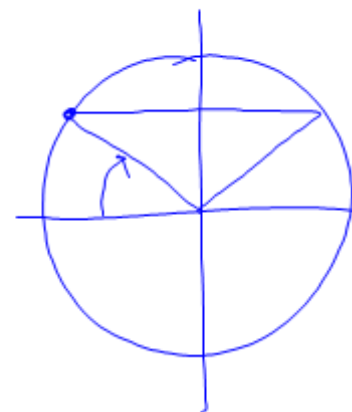
ASS case

$$B = 56.3^\circ \quad a = 8.3 \quad b = 7.6$$



$$\frac{\sin 56.3}{7.6} = \frac{\sin A}{8.3}$$

$$\sin A = 8.3 \cdot \frac{\sin 56.3}{7.6}$$

Triangle

56.3
65.3 ✓
58.4

Triangle 2

56.3
114.7 ✓
9

$$\sin A = 0.908$$

$$A = \sin^{-1}(0.908)$$

$$A = 65.3^\circ \text{ or } 114.7 \quad [180 - 65.3]$$